CLIEN	IT Xcel	Energ	у				PROJECT NAME Comanche Station				
PROJECT NUMBER 10217175							PROJECT LOCATION Pueblo, CO				
DATE	STARTE	D _1:	2/08/20 09:	<u>25</u> C (OMPLE	TED 12/08/20 11:00	WELL LOCATION _ 562453.84 N 2266883.73 E				
DRILI	ING CO	NTRA	CTOR Dal	kota D	rilling		GROUND ELEVATION 4834 ft	HOLE D	DIAMETER 8		
DRILI	ING ME	THOD	HSA/NX/	AR			GROUND WATER LEVELS:				
LOGO	SED BY	E. Mu	ınoz	_ CI	HECKE	D BY	AFTER DRILLING				
NOTES New, XYZ estimated pending survey											
O DEPTH	SAMPLE TYPE NUMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATER	IAL DESCRIPTION		WELL DIAGRAI Casing Type PVC		
5 5 10 15 15				ML SC CH		1.0 loose, dry, fine grained SILT (ML), yellowish birdry, with fine sand (Colors, with fine sand, (Colors, with fine sand, mottled (W-10-5) FAT CLAY (CH), light very stiff, medium plas (10YR 3/1) shale fragm high-angle fractures, right (Colluvium) (W-10-7.5, Colluvium) (W-10-7.5, 10YR 3/1) shale fragm high-angle fractures (Colluvium) (W-10-7.5, 10YR 3/1) shale fragm high-angle fractures (Colluvium) (M-10-7.5, 10YR 3/1) shale fragm high-angle fractures (Colluvium) (M-10-7.5, 10YR 3/1) shale fragm high-angle fractures (Colluvium) (M-10-7.5, 10YR 3/1) shale fragm high-angle fractures (Colluvium)	ight yellowish brown (10YR 6/4), e grained, grades into silty clay with evaporites (Colluvium) /ellowish brown (10YR 6/4), stiff to ticity, dry, with very dark gray nents, recrystallized evaporites on g grinding/auger sticking in clay W-10-10, W-10-12.5) yellowish brown (10YR 6/4), stiff, fine sand and very dark gray nents, recrystallized evaporites on folluvium) (W-10-15)		Bentonite Chips 10/20 Sili Sand 0.010-in S	ica	
						Bottom of	f borehole at 18.0 feet.				

CLIENT Xcel Energy								PROJECT NAME Comanche Station	PROJECT NAME Comanche Station		
PROJECT NUMBER 10217175								PROJECT LOCATION Pueblo, CO			
DATE STARTED 12/07/20 10:05 COMPLETED 12/08/20 09:25								12/08/20 09:25 WELL LOCATION 562456.84 N 2266963.73 E	WELL LOCATION 562456.84 N 2266963.73 E		
DRILI	_ING (CON	ITRAC	CTOR Dak	kota D	rilling		GROUND ELEVATION 4837 ft HOLE	GROUND ELEVATION 4837 ft HOLE DIAMETER 8		
DRILI	-ING I	MET	HOD	HSA/NX/				GROUND WATER LEVELS:			
				noz				7 Y_ AFTER DRILLING _25.47 ft / Elev 4811.53	s ft		
NOTE			XYZ e	estimated p	endin	g surv	rey				
O DEPTH (ft)	SAMPLE TYPE	NOMBER	RECOVERY %	BLOW COUNTS (N VALUE)	U.S.C.S.	GRAPHIC LOG		MATERIAL DESCRIPTION	WELL DIAGRAM Casing Type: 2-in PVC		
					SM		1.0	SILTY SAND (SM), very dark grayish brown (10YR 3/2), loose, dry, fine grained, some coarse sand (Fill)			
								SILT (ML), yellowish brown (10YR 5/4), soft, low plasticity, dry, with fine sand (Colluvium) (W-10-2.5)			
	X	Σ Σ	83	4-5	ML						
 5							5.0				
	X S	ນ ⊠	83	11-15				CLAYEY SAND (SC), light yellowish brown (10YR 6/4), medium dense, dry, fine grained, grades into silty clay			
					sc		7.5	with fine sand, mottled with evaporites (Colluvium) (W-10-5)			
	M S	2	91	22-28/5"			,	FAT CLAY (CH), light yellowish brown (10YR 6/4), stiff to			
							1	very stiff, medium plasticity, dry, with very dark gray (10YR 3/1) shale fragments, recrystallized evaporites on			
10		<u>></u>	89	21-29/3"				high-angle fractures, rig grinding/auger sticking in clay (Colluvium) (W-10-7.5, W-10-10, W-10-12.5)			
					СН						
		<u>></u>	100	30-20/3"			1				
15		<u>S</u>	91	23-27/5"			15.5				
		≥	91	23-2773	CL			LEAN CLAY (CL), light yellowish brown (10YR 6/4), stiff, low plasticity, dry, with fine sand and very dark gray			
		<u>ب</u>	100	38-12/1"			17.5	(10YR 3/1) shale fragments, recrystallized evaporites on high-angle fractures (Colluvium) (W-10-15)			
_		≥	100	30-12/1				SHALE, highly weathered, very dark gray (10YR 3/1), weak, friable, clayey, fractured with evaporites and iron			
20		لر.	100	50			20.0	staining (Weathered Shale) (W-10-17.5)			
		₹.	100	50	├		<u>20.3</u>	SHALE, moderately weathered, very dark gray (10YR 3/1), medium strong, dry, iron stained with trace			
		,	400] ;	evaporites (Weathered Shale) (W-10-20) SHALE, moderately weathered, dark grayish brown (10YR			
		ž	100					4/2), medium strong, dry, fractured with iron staining and evaporite depositis (Weathered Shale) (W-10-20-25			
25						_	25.0	[SPLP])			
-								SHALE, moderately weathered to highly weathered, very dark gray (10YR 3/1), weak, clayey, moist to wet, highly			
	}	ž	75			_		fractured, iron stained (Weathered Shale)			
 30						+_	29.0	SHALE, slightly weathered, dark gray (Gley 1 4/N), weak,			
30						<u> </u>	31.0	clayey, moist, unfractured (Weathered Shale)			
-	2	ž	100					SHALE, unweathered, dark gray (Gley 1 4/N), strong, unfractured (Unweathered Shale) (W-10-32-34 [SPLP])			
								2212.22 (0304.37 C437 (1 10 02 04 [01 E1])			
							34.0	Rottom of horehole at 34.0 feet			